CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MY/W.No.14/2018-19 Date : 11.03.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Zone, BBMP, Bangalore.

Agency : **Sri. M Yogesh (Professional Global Infrastructure Private Limite),** Bangalore.

Name of Work : Restoration of BWSSB Road cut portion done by BWSSB (For Water Line and Sanitary Line) in Sidedahalli Village in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.

Date of Testing : 11.03.2019

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	79	7.90	7.90	92.1	90-100
2.36	158	15.80	23.70	76.3	75-100
1.18	163	16.30	40.00	60.0	55-90
600 Micron	221	22.10	62.10	37.9	35-59
300 Micron	209	20.90	83.00	17.0	8-30
150 Micron	132	13.20	96.20	3.8	0-10

Note:

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Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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Job No.: CQCE/BBMP/MY/W.No.14/2019-20 Date : 12.04.2019

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Zone, BBMP, Bangalore.
Agency : **Sri. M Yogesh (Professional Global Infrastructure Private Limited),** Bangalore.
Name of Work : Restoration of BWSSB Road cut portion done by BWSSB (For Water Line and Sanitary Line) in Sidedahalli Village in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
Date of Testing : 12.04.2019
Material Type : Wet Mix Macadam

Oven Dry.Wt 10500

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	412	412	3.9	96.1	95-100
22.4	2652	3064	29.2	70.8	60-80
11.2	2658	5722	54.5	45.5	40-60
4.75	1582	7304	69.6	30.4	25-40
2.36	1147	8451	80.5	19.5	15-30
0.600	812	9263	88.2	11.8	8-22
0.075	512	9775	93.1	6.9	0-8

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Job No.: CQCE/BBMP/MY/W.No.14/2019-20 Date : 17.05.2019

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Zone, BBMP, Bangalore.
Agency : **Sri. M Yogesh (Professional Global Infrastructure Private Limited),** Bangalore.
Name of Work : Restoration of BWSSB Road cut portion done by BWSSB (For Water Line and Sanitary Line) in Sidedahalli Village in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
Date of Testing : 17.05.2019
Material Type : Wet Mix Macadam

Oven Dry.Wt 10500

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	410	410	3.9	96.1	95-100
22.4	2635	3045	29.0	71.0	60-80
11.2	2650	5695	54.2	45.8	40-60
4.75	1589	7284	69.4	30.6	25-40
2.36	1140	8424	80.2	19.8	15-30
0.600	826	9250	88.1	11.9	8-22
0.075	510	9760	93.0	7.0	0-8

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Job No.: CQCE/BBMP/MY/W.No.14/2019-20 Date : 15.06.2019

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Zone, BBMP, Bangalore.
Agency : **Sri. M Yogesh (Professional Global Infrastructure Private Limited),** Bangalore.
Name of Work : Restoration of BWSSB Road cut portion done by BWSSB (For Water Line and Sanitary Line) in Sidedahalli Village in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
Date of Testing : 15.06.2019
Material Type : Wet Mix Macadam

Oven Dry.Wt 10500

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	405	405	3.9	96.1	95-100
22.4	2635	3040	29.0	71.0	60-80
11.2	2650	5690	54.2	45.8	40-60
4.75	1589	7279	69.3	30.7	25-40
2.36	1145	8424	80.2	19.8	15-30
0.600	825	9249	88.1	11.9	8-22
0.075	525	9774	93.1	6.9	0-8

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Job No.: CQCE/BBMP/MY/W.No.14/2019-20 Date : 19.07.2019

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Zone, BBMP, Bangalore.
Agency : **Sri. M Yogesh (Professional Global Infrastructure Private Limited),** Bangalore.
Name of Work : Restoration of BWSSB Road cut portion done by BWSSB (For Water Line and Sanitary Line) in Sidedahalli Village in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
Date of Testing : 19.07.2019
Material Type : Wet Mix Macadam

Oven Dry.Wt 10500

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	418	418	4.0	96.0	95-100
22.4	2635	3053	29.1	70.9	60-80
11.2	2650	5703	54.3	45.7	40-60
4.75	1596	7299	69.5	30.5	25-40
2.36	1140	8439	80.4	19.6	15-30
0.600	836	9275	88.3	11.7	8-22
0.075	565	9840	93.7	6.3	0-8

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Job No.: CQCE/BBMP/MY/W.No.14/2019-20 **Date:** 12.04.2019

Aggregate Impact Value

IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Zone, BBMP, Bangalore.
Agency	**Sri. M Yogesh (Professional Global Infrastructure Private Limited),** Bangalore.
Name of the Work	Restoration of BWSSB Road cut portion done by BWSSB (For Water Line and Sanitary Line) in Sidedahalli Village in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
Type of Mix	Wet Mix macadam
Date of Testing	12.04.2019

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	384	385	22.41
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	298	298	297	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.99	22.40	22.86	

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Job No.: CQCE/BBMP/MY/W.No.14/2019-20 Date: 17.05.2019

Aggregate Impact Value

IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Zone, BBMP, Bangalore.
Agency	**Sri. M Yogesh (Professional Global Infrastructure Private Limited),** Bangalore.
Name of the Work	Restoration of BWSSB Road cut portion done by BWSSB (For Water Line and Sanitary Line) in Sidedahalli Village in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
Type of Mix	Wet Mix macadam
Date of Testing	17.05.2019

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	375	379	381	22.99
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	87	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	290	292	292	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.67	22.96	23.36	

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Job No.: CQCE/BBMP/MY/W.No.14/2019-20 **Date:** 15.06.2019

Aggregate Impact Value

IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Zone, BBMP, Bangalore.
Agency	**Sri. M Yogesh (Professional Global Infrastructure Private Limited),** Bangalore.
Name of the Work	Restoration of BWSSB Road cut portion done by BWSSB (For Water Line and Sanitary Line) in Sidedahalli Village in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
Type of Mix	Wet Mix macadam
Date of Testing	15.06.2019

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	382	382.5	22.28
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	85	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	297	297	295.5	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.84	22.25	22.75	

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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